

Name : Dr. R. SUBASH CHANDRA BOSE

Designation : ASSISTANT PROFESSOR

Date of Birth : 26.06.1986

Date of Appointment : 01.08.2016

Address : No.2/8, Pandiyapuram North Street,  
Pettai, Tirunelveli – 627 004

Mobile : 9789114856

E-mail id : [boseips@gmail.com](mailto:boseips@gmail.com)

**PAPERS PRESENTED IN THE INTERNATIONAL/NATIONAL SEMINARS/CONFERENCES**

1. Presented a paper entitled “Synthesis, Growth, Structural, Spectral and Optical Studies on 2-amino 4-picolinium 4-Hydroxybenzoate Single Crystal” in the International Conference on Futuristic Research in Engineering Smart Materials (FRESM 2021) organized by Department of Mechanical Engineering, CMRIT, Bengaluru, India & Core-Facility Centre for Photochemistry and Nanomaterials, GNU, South Korea on 23<sup>rd</sup> & 24<sup>th</sup> April 2021.
2. Presented a paper entitled “Investigation on Growth, Optical, dielectric’ thermal and Mechanical Properties of Benzimidazolium 3,5 dinitrobenzoate Single Crystal” in the National Conference on Modeling Extreme Events in Natural and Engineering Systems organized by Theivanai Ammal College for Women, Villupuram on 27<sup>th</sup> January 2021.
3. Presented a paper entitled “Crystal Growth and Characterization of 1H-Benzimidazolium hydrogen tartarate” International Conference on Emerging Trends in Materials for Energy & Biological Applications M.Kumarasamy College of Engineering, Karur. on 07<sup>th</sup> March 2020.
4. Presented a paper entitled “Synthesis, Crystal Growth and Physical Properties of 4-Dimethylaminopyridinium – 3,5 – Dinitrobenzoate” National Conference on Recent Developments in Effective Materials (REDEEMS 2020), Sarah Tucker College, Tirunelveli 07<sup>th</sup> February 2020.

5. Presented a paper entitled “Synthesis, Crystal Growth and Physical Properties of 4-Dimethylaminopyridinium – 3,5 – Dinitrobenzoate” National Seminar on Advanced Materials (NSAM 2020) Jamal Mohamed College, Trichy on 23<sup>rd</sup> January 2020.
6. Presented a paper entitled “Synthesis, Crystal Growth and Physical Properties of 4-Dimethylaminopyridinium – 3,5 – Dinitrobenzoate” International Seminar on Technologically Advanced Materials (ISTAM 2019) Muslim Arts College, Thiruvithancode, Kanyakumari on 06<sup>th</sup> September 2019.
7. Presented a paper entitled “Synthesis, Growth and Physical Properties of Lithium Fumarate Semi Organic Single Crystals” in National Seminar on Recent Trends in Material Science conducted by Theivanai Ammal College for Women, Villupuram on 02<sup>nd</sup> February 2018.
8. Presented a Paper entitled “An Overview on the need of Nuclear Power in India” in the KKNPP Sponsored State Level Seminar on Nuclear Energy, Peaceful, Environmentally Friendly and Reliable Source for Future (SSNE-2016) conducted by The M.D.T.Hindu College, Tirunelveli (2016)
9. Presented a Paper entitled “Synthesis, Crystal Growth and Physical properties of Semiorganic Lithium fumarate single crystals” in the National Conference on Experimental and Theoretical Approaches to Photonic Materials (ETAP 2016) conducted by Bishop Moore College, Mavelikara, Kerala (2016)
10. Presented a Paper entitled “ Optical, Structural and Mechanical Characterization of Lithium Fumarate Semiorganic Single Crystals” in the State Level Seminar on Expanding Frontiers in Materials Science Conducted by Arul Anandar College, Madurai (2015)
11. Presented a Paper entitled “ Synthesis, Growth & Structural Characterisation of Lithium Fumarate Semi organic Single Crystals in the TEQIP II Sponsored International Conference on Recent Advancements on Materials(ICRAM 2015) conducted by Department of Physics, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli (2015)
12. Presented a Paper entitled “Effect of Copper on the Growth and properties of Lithium Ammonium Sulphate single crystals” in the UGC Sponsored National Conference in Recent Trends and Advances in Physics (NCRTAP 2015) conducted by The M.D.T.Hindu College, Tirunelveli (2015)

13. Presented a Paper entitled “Growth and Characterise the CdS Nano Particles with Some Capping Agents” in the National Conference on Recent Trends in Advanced Energy Materials conducted by Alagappa University, Karaikudi (2010)

**PAPER PUBLISHED IN THE JOURNAL (with ISSN)**

<b>Title of paper</b>	<b>Name of journal</b>	<b>Year</b>	<b>Volume, Page No.</b>	<b>ISSN number</b>	<b>(DOI)</b>
Structural and Optical Characterization of novel 2-amino-4-methylpyridinium cyanoacetate (2A4MPC) crystals for nonlinear optical applications	Journal of Material Science, Materials in Electronics	Nov-24	Volume 35, Issue 35, P.No.2187	1573-482X	<a href="https://doi.org/10.1007/s10854-024-13908-3">https://doi.org/10.1007/s10854-024-13908-3</a>
Spectroscopic, Thermal, Electrical and nonlinear optical Investigation of Benzimidazolium Cyanoacetate Single crystals for Optoelectronics device applications	Journal of Material Science, Materials in Electronics	Jan-24	Volume 35, Issue 2, P.No.101-111	1573-482X	<a href="https://doi.org/10.1007/s10854-023-11725-8">https://doi.org/10.1007/s10854-023-11725-8</a>
Growth and Characterization of Glycinium Cyanoacetate (GCA) Single Crystals	European Chemical Bulletin	Jun-23	Volume 12, Issue 7, P.No. 3193-3206	2063 5346	<a href="https://www.eurchembull.com/uploads/paper/1848eb6e7fd3e6290bad3a106255ac9b.pdf">https://www.eurchembull.com/uploads/paper/1848eb6e7fd3e6290bad3a106255ac9b.pdf</a>
Guanidinium Carbonate Single Crystal Structural, Spectral, Optical, Mechanical, Thermal and Antibacterial studies with Cyanoacetic acid as solvent	European Chemical Bulletin	Jun-23	Volume 12, Issue 7, P.No. 3542-3554	2063 5346	<a href="https://www.eurchembull.com/uploads/paper/ea42472ceaff87c6e0db089139c332e.pdf">https://www.eurchembull.com/uploads/paper/ea42472ceaff87c6e0db089139c332e.pdf</a>

Synthesis, Growth, Structural and Optical Studies on 2-amino-4-picolinium 4-hydroxybenzoate single crystal	Material Today	May 2021	Volume 47, P.No.4772-4777	2214 7853	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2214785321043066">https://www.sciencedirect.com/science/article/abs/pii/S2214785321043066</a>
Studies on 4-dimethyl aminopyridinium salicylate monohydrate's Optical, Mechanical and Laser Damage Threshold	Solid State Communications	April 2021	Volume 334	0038 1098	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109821001502">https://www.sciencedirect.com/science/article/abs/pii/S0038109821001502</a>
Growth, Optical, Dielectric and Mechanical Properties of Benzimidazolium 3, 5 dinitrobenzoate Single Crystal	Journal of Materials Science, Materials in Electronics (JMSE),	January 2021	Volume 32, Issue 3 P.No. 2987-2998	0957 4522	<a href="https://link.springer.com/article/10.1007/s10854-020-05050-7">https://link.springer.com/article/10.1007/s10854-020-05050-7</a>
Synthesis, Growth and Structural Characterization of Lithium Fumarate Semiorganic single crystals	Journal of Chemical and Pharmaceutical Sciences	2016	Volume 9, Issue 2 P.no.1021-1022	0974 2115	<a href="http://www.jchps.com/past_issues.php?volid=8&amp;issueid=23&amp;year=2016">http://www.jchps.com/past_issues.php?volid=8&amp;issueid=23&amp;year=2016</a>

**PAPER PUBLISHED IN THE JOURNAL (with ISSN)**

Title	Name of the Journal	Chapter No.	ISBN No.
Impact on Efficiency, Effectiveness and Sustainability towards Excellence in Higher Education through Quality Awareness	HINDCO Publications	276-284	978-81-927227-64

## **INTERNATIONAL/NATIONAL SEMINAR/CONFERENCE ATTENDED**

1. To participate “Student Development Programme on Projects & Fellowships” organized by PG & Research Department of Physics, The M.D.T. Hindu College on 06.08.2020 & 07.08.2020
2. To participate Webinar on “Nano Materials for Energy and Environmental Applications” organized by Department of Physics, St.Francis Xavier Engineering College on 05.08.2020
3. To participate “National Webinar on General Fitness during Pandemic” organized by Department of Physical Education, The M.D.T. Hindu College on 05.08.2020
4. To participate “National Webinar on Recent Trends in Crystal Growth” organized by Department of Physics, St.Xavier’s College, Palayankottai on 10.07.2020
5. To participate “Virtual Symposium on Multi-Functional Materials” organized by Department of Physics, SRM Institute of Science and Technology on 27.06.2020
6. To participate “International Virtual Conference on Advanced Materials for Energy and Environmental Applications (ICAMEEA-2020)” organized by Bharathidasan University, Trichy on 26.06.2020 & 27.06.2020
7. To participate “National Webinar on Marvels & Mysteries of the Universe” organized by Department of Physics, Pope’s College on 09.06.2020
8. To Participate “International Conference on Advanced Materials” organized by the Department of Physics, Aditanar College of Arts and Science, Tiruchendur on 26<sup>th</sup> August 2019.
9. To Participate “ International Conference on Advanced Materials and their Applications (ICAMA 2019)” organized by the Department of Chemistry, V.O.Chidambaram College, Tuticorin on 13<sup>th</sup> December 2019.
10. To Participate “International Seminar on Technology Advanced Materials ISTAM 2018” organized by Department of Physics, Muslim Arts College, Thiruvithancode on 29<sup>th</sup> September 2018.
11. State Level Seminar on “Recent Trends in Physics” at Noorul Islam University, Kanyakumari (2017)

12. State Level Seminar on “Recent Trends in Materials Science(RTMS 2016)” at SadakathullahAppa College, Tirunelveli (2016)
13. International Conference on “Recent Advances in Materials Research and its Applications at St.Xavier’s College, Palayamkottai (2015)
14. CSIR &DST Sponsored National Conference on “Nano Materials for Energy Harvesting(NaMEH 2009) at Thiagarajar College of Engineering, Madurai (2009)
15. UGC Sponsored National Conference on Recent Trends in Crystal Growth, Thin Films and Nano-Structured Materials at Aditanar College of Arts and Science, Tiruchendur (2009)

#### **WORKSHOPS ATTENDED**

1. TEQIP II Sponsored Workshop on “Physics in Engineering (PiE)” organized by the Department of Physics, Thiagarajar College of Engineering, Madurai (2015)
2. UGC & BRNS Sponsored Workshop on Preparation, Characterization of Crystalline Materials and their Applications (WPCCMA 2015) organized by Department of Physics, Anna University, Chennai (2015)

#### **OTHER ACTIVITIES**

1. Attended the Summer School Program (SSP 2009) conducted by Institute for Plasma Research, Gandhinagar, Gujarat (2009).